

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Listing of Claims:

1. (Currently Amended) A method of evaluating a base station without missing a digital control channel paging frame, comprising ~~the steps of:~~
receiving a first paging frame from a digital control channel transmitted by a first base station;
initiating a timing sequence after receiving said first paging frame;
prior to completion of the initiated timing sequence, scanning for system parameters from a digital control channel of at least one second base station; and
receiving a second paging frame from the digital control channel transmitted by said first base station.
2. (Currently Amended) The method of Claim 1, further comprising ~~the step of~~ halting said scanning ~~step~~ when said system parameters from said at least one second base station are received.
3. Cancelled
4. (Currently Amended) The method of Claim 1, wherein said second paging frame is ~~the~~ a next paging frame ~~for said mobile station~~ which immediately follows said first paging frame.
5. (Currently Amended) The method of Claim 1, wherein ~~the duration of said~~ a duration of scanning ~~step~~ is limited to a predetermined amount of time, said predetermined amount of time being dependent on ~~the~~ an amount of time between said first and second paging frames.
6. (Currently Amended) The method of Claim 1, wherein ~~the duration of said~~ a duration of scanning ~~step~~ is limited to a predetermined amount of time, said predetermined amount of time

being dependent on mobile station architecture.

7. (Currently Amended) The method of Claim 1, wherein ~~the duration of said~~ a duration of scanning step is limited to a predetermined amount of time, said predetermined amount of time being dependent on ~~the~~ an amount of time required for ~~said mobile phone~~ to switch from said ~~first~~ receiving the first paging frame step to said scanning step and from said scanning step to ~~said second~~ receiving the second paging frame step.

8. (Currently Amended) The method of Claim 1, ~~wherein said steps are performed by a mobile station.~~

9. (Currently Amended) A method of evaluating a base station without missing a digital control channel paging frame, comprising ~~the steps of:~~

initiating a timing sequence after receiving a first paging frame from a digital control channel transmitted by a first base station;

selecting a at least one second base station to be evaluated during said timing sequence;

prior to completion of the initiated timing sequence, scanning said at least one second base station transmissions for system parameters; and

receiving a second paging frame from said digital control channel transmitted by the first base station.

10. (Currently Amended) The method of Claim 9, further comprising ~~the step of halting said scanning step~~ when said system parameters from said at least one second base station are received.

11. Cancelled

12. (Currently Amended) The method of Claim 9, wherein said second paging frame is ~~the~~ a next paging frame ~~for said mobile station~~ which immediately follows said first paging frame.

13. (Currently Amended) The method of Claim 9, wherein ~~the~~ a duration of said scanning step is limited to a predetermined amount of time, said predetermined amount of time being dependent on mobile station architecture.

14. (Currently Amended) The method of Claim 9, wherein ~~the duration of said~~ a duration of scanning ~~step~~ is limited to a predetermined amount of time, said predetermined amount of time being dependent on ~~the~~ an amount of time between said first and second paging frames.

15. (Currently Amended) The method of Claim 9, wherein ~~the duration of said~~ a duration of scanning ~~step~~ is limited to a predetermined amount of time, said predetermined amount of time being dependent on ~~the~~ an amount of time required for ~~said mobile phone~~ to switch from said first receiving the first paging frame step to said scanning step and from said scanning step to ~~said second~~ receiving the second paging frame step.

16. (Currently Amended) The method of Claim 9, ~~wherein said steps are~~ performed by a mobile station.

17. (Currently Amended) A system of wireless base station and mobile station communication, comprising:

first and second base stations transmitting digital control channel paging frames and system parameters; and

a mobile station registered with and receiving digital control channel paging frames from said first base station;

wherein said mobile station is adapted to respond to a receipt of a first digital control channel paging frame from said first base station ~~triggers to trigger~~ evaluation of said second base station; ~~said mobile station evaluates based at least on transmitted system parameters of said second base station without missing said paging frames~~ a next digital control channel paging frame that is

S.N.: 09/290,090
Art Unit: 2617

transmitted from said first base station.

18. Cancelled

19. Cancelled

20. Cancelled

21. (Currently Amended) The system of Claim 17, wherein said mobile station ~~can~~ is adapted to receive ~~said transmissions of a transmission from~~ a transmission from said second base station only during a predetermined ~~amount~~ period of time, said predetermined ~~amount~~ period of time being dependent on at least an ~~the~~ architecture of said mobile station.

22. (Currently Amended) The system of Claim 17, wherein said mobile station ~~can~~ is adapted to receive ~~said transmissions of a transmission from~~ a transmission from said second base station only during a predetermined ~~amount~~ period of time, said predetermined ~~amount~~ period of time being dependent on ~~the~~ at least an amount of time between said digital control channel paging frames for said mobile station transmitted by said first base station.

23. (Currently Amended) The system of Claim 17, wherein said mobile station ~~can~~ is adapted to receive ~~said transmissions of a transmission from~~ a transmission from said second base station only during a predetermined ~~amount~~ period of time, said predetermined ~~amount~~ period of time being dependent on ~~the~~ at least an amount of time required for said mobile ~~phone~~ station to switch from receiving ~~said the first digital control channel~~ paging frames ~~frame~~ transmitted by said first base station to receiving said system parameters transmitted by said second base station, and to switch back to receive the next digital control channel paging frame transmitted by said first base station and ~~back.~~

24. (Currently Amended) A mobile station, comprising:
~~a control head;~~

S.N.: 09/290,090
Art Unit: 2617

a transceiver unit, comprising

a transmitter;

a receiver; and

a logic control assembly ~~at least partially controlled by said control head; and~~

~~an antenna assembly connected to said transceiver unit;~~

~~wherein said logic control assembly controls the~~ that comprises a guard timer used to control
operation of said transceiver unit to scan for ~~and evaluate~~ transmitted parameters of at least one
base station under evaluation without missing digital control channel paging frames transmitted
from a registered base station to said mobile station, wherein said transceiver unit receives said
parameters only during a predetermined period of time set by said guard timer that is being
dependent on ~~the~~ an amount of time between said digital control channel paging frames for said
mobile station transmitted by said registered base station.

25. (Currently Amended) The mobile station of Claim 24, wherein receipt of a first digital control
channel paging frame from said registered base station triggers said logic control assembly to
initiate operation of said guard timer and to cause said transceiver unit to scan for ~~and evaluate~~
said at least one base station under evaluation.

26. (Currently Amended) The mobile station of Claim 24, ~~wherein said transceiver unit further~~
~~comprises~~ further comprising memory and said logic control assembly executes programs in said
memory to control said transceiver unit, said guard timer, and to scan for ~~and evaluate~~ said
transmitted parameters.

27. (Currently Amended) The mobile station of Claim 24, wherein said transceiver unit receives
said parameters only when said registered base station is not transmitting said digital control
channel paging frames.

28. (Original) The mobile station of Claim 24, wherein said transceiver unit stops scanning for
said parameters once said parameters are received.

29. (Currently Amended) The mobile station of Claim 24, wherein said transceiver unit can receive said parameters only during a predetermined ~~amount~~ period of time, said predetermined ~~amount~~ period of time being dependent on at least an ~~the~~ architecture of said mobile station.

30. Cancelled

31. (Currently Amended) The system of Claim 24, wherein said transceiver unit ~~can receive said parameters only during a predetermined amount of time, said amount of time being dependent on the amount of time required for said mobile phone to switch from receiving said paging frames transmitted by said registered base station to receiving said parameters transmitted by said base station under evaluation and back~~ is adapted to receive a transmission from the at least one second base station under evaluation only during a predetermined period of time set by said guard timer, said predetermined period of time being dependent on at least an amount of time required for said mobile station to switch from receiving a digital control channel paging frame transmitted by said registered base station to receiving system parameters transmitted by said at least one base station under evaluation, and to switch back to receive a next digital control channel paging frame transmitted by said registered base station.

32. (New) An integrated circuit, comprising:

control circuitry adapted to implement a guard timer and to control operation of a radio frequency receiver to receive a system parameter-containing transmission from a first base station under evaluation during a predetermined period of time set by said guard timer, said predetermined period of time being dependent on at least an amount of time required to switch the radio frequency receiver from receiving a digital control channel paging frame transmitted by a second base station to receiving the system parameter-containing transmission transmitted by said first base station under evaluation, and to switch back to receive a next digital control channel paging frame transmitted by said second base station.

33. (New) An integrated circuit as in claim 32, embodied in a mobile station, where said second

base station is a base station to which the mobile station is currently registered.

34. (New) An integrated circuit as in claim 32, where said digital control channel paging frame as received comprises a paging message sent over a full-rate digital control channel.

35. (New) An integrated circuit as in claim 32, where said digital control channel paging frame as received comprises a paging message sent over a half-rate digital control channel.

36. (New) A computer program product embodied in a tangible memory medium and comprising instructions the execution of which by a data processor result in operations that comprise controlling operation of a radio frequency receiver to receive a system parameter-containing transmission from a first base station under evaluation during a predetermined period of time set by a guard timer, said predetermined period of time being dependent on at least an amount of time required to switch the radio frequency receiver from receiving a digital control channel paging frame transmitted by a second base station to receiving the system parameter-containing transmission transmitted by said first base station under evaluation, and to switch back to receive a next digital control channel paging frame transmitted by said second base station; and evaluating parameters received from the first base station.

37. (New) A computer program product as in claim 36, embodied in a mobile station, where said second base station is a base station to which the mobile station is currently registered.

38. (New) A computer program product as in claim 36, where said digital control channel paging frame as received comprises a paging message sent over a full-rate digital control channel.

39. (New) A computer program product as in claim 36, where said digital control channel paging frame as received comprises a paging message sent over a half-rate digital control channel.